CZM STRATUSOCT™ with RNFL & Macula Normative Database 510(k) Premarket Notification

APR 2 0 2004

510(k) Summary Carl Zeiss Meditec Incorporated STRATUSOCTTM with RNFL & Macula Normative Database

This 510(k) summary for the *STRATUS*OCTTM with RNFL & Macula Normative Database is submitted in accordance with the requirements of SMDA 1990 and 21 C.F.R § 807.92.

GENERAL INFORMATION

Manufacturer: Carl Zeiss Meditec Inc.

5160 Hacienda Drive Dublin, California 94568 (925) 557-4353 (phone) (925) 557-4481 (fax) Est. Reg. No. 2918630

Contact Person: R. Michael Crompton

Vice President, Regulatory / Clinical Affairs

and Quality Assurance

DEVICE DESCRIPTION

Classification: Class II

Trade Name: STRATUSocr™ with Retinal Nerve Fiber Layer and Macula

Normative Database

Generic/Common Name: Ophthalmoscope (21 CFR § 886.1570)

Ultrasonic pulsed echo imaging system (21 CFR § 892.1560)

PREDICATE DEVICE

(1) STRATUSOCTTM with Retinal Nerve Fiber Layer Normative Database

INTENDED USE

The STRATUSOCTTM is a high resolution tomographic device for the viewing and axial cross sectional imaging of posterior ocular structures. It is used for in vivo imaging and measurement of the retina, retinal nerve fiber layer, macula, and optic disk. The STRATUSOCTTM with Retinal Nerve Fiber Layer ("RNFL") & Macula Normative Database is a quantitative tool for the comparison of retinal nerve fiber layer and the macula in the human retina to a database of known normal subjects. It is intended for use as a diagnostic device to aid in the detection and management of ocular diseases, including but not limited to, macular edema, central serous retinopathy, and glaucoma.

CZM STRATUSOCT™ with RNFL & Macula Normative Database 510(k) Premarket Notification

DEVICE DESCRIPTION

The STRATUSOCTTM with RNFL & Macula Normative Database is a microprocessor-based low-coherence digital instrument employing low coherence interferometry to generate images of internal ocular tissue microstructures. The device measures optical reflections or backscatter from tissue using a scanning optical beam. Results obtained for the Retinal Nerve Fiber Layer and the Macula can be compared to a database of known normal human patients.

SUBSTANTIAL EQUIVALENCE

The *STRATUS*octTM with RNFL & Macula Normative Database is substantially equivalent to the predicate device identified previously. The *STRATUS*octTM with RNFL & Macula Normative Database is substantially equivalent to the predicate device with regard to intended use, operating principle, function, and materials.

Clinical evaluation performed on the *STRATUS*OCTTM with RNFL & Macula Normative Database supports the expanded indications for use statement and demonstrates the device is substantially equivalent to the predicate device and does not raise new questions regarding safety and effectiveness with respect to ophthalmoscopes and ultrasonic pulsed echo imaging systems.

CLINICAL EVALUATION

Clinical data was collected on a statistically significant number of normal human patients and analyzed to support the inclusion of the Macula Normative Database in the *STRATUS*octTM.

CONCLUSION

As described in this 510(k) Summary, all testing deemed necessary was conducted on the *STRATUS*OCTTM with RNFL & Macula Normative Database to ensure that the device is safe and effective for its intended use when used in accordance with its Instructions for Use.





Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

APR 2 0 2004

Carl Zeiss Meditec, Inc. c/o Mr. R. Michael Crompton Vice President, Regulatory/Clinical Affairs and Quality Assurance 5160 Hacienda Drive Dublin, CA 94568-7562

Re: K033123

Trade/Device Name: STRATUSoct™ with Retinal Norve Fiber Layer ("RNFL")

and Macula Normative Database

Regulation Number: 21 CFR 886.1570; 892.1560

Regulation Name: Ophthalmoscope and ultrasonic pulsed echo imaging system

Regulation Class: Class II Product Code: HLI; IYO Dated: March 15, 2004 Received: March 22, 2004

Dear Mr. Crompton:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4613. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,

A. Ralph Rosenthal, M.D.

Director

Division of Ophthalmic and Ear,

Nose and Throat Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

Statement of Indications for Use

510(k) Number (if known): K033123

Device Name: STRATUSOCT™ with RNFL & Macula Normative Database
Indications for Use: The STRATUSOCT™ is a high resolution tomographic device for the viewing and axial cross sectional imaging of posterior ocular structures. It is used for <i>in vivo</i> imaging and measurement of the retina, retinal nerve fiber layer, macula, and optic disk. The STRATUSOCT™ with Retinal Nerve Fiber Layer ("RNFL") & Macula Normative Database is a quantitative tool for the comparison of retinal nerve fiber layer and the macula in the human retina to a database of known normal subjects. It is intended for use as a diagnostic device to aid in the detection and management of ocular diseases, including but not limited to, macular edema, central serous retinopathy, and glaucoma.
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
Concurrence of CDRH, Office of Device Evaluation (ODE) (Division Sign-Off) Division of Ophthalmic Ear, Nose and Throat Devises
510(k) Number <u> </u>
Prescription Use OR Over-the-Counter Use (Per 21 C.F.R. § 801.109)